

OK of: US-09-126-945b-2\_COPY\_236\_243 to: N\_GeneSeq\_0601.\* out\_format : pfs  
 Date: Sep 7, 2001 6:30 PM

About: Results were produced by the Gencore software, version 4.5,  
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Command line parameters: -DBV-X1H  
 -O-CH2.1/USPC0001/USPC0126945/runlet.07092001.152109.3686/app.query.fasta.1.487  
 -DB-A\_GeneSeq\_0601 -OPT-fastest -SUFFIX-0119.rmg -GAPOP-4.500  
 -GAPEXT-0.050 -MINMATCH-0.100 -LOOPL-0.000 -LOOPEXT-0.000  
 -GAPOP-4.500 -GAPEXT-0.050 -XGAPOP-60.000 -XGAPEXT-60.000  
 -PCAPOP-6.000 -PCAPEXT-7.000 -YGAPOP-60.000 -YGAPEXT-60.000  
 -DELCP-6.000 -DELEXT-7.000 -START-1 -MATRIX-01190  
 -TRANS-human04.cd1 -LIST-45 -DOCALIGN-200 -THR\_SCORE-quality  
 -TRAIL-NA1999 -NA1999-5 -MODE-LOCAL -OUTFMT-pfs -NORM-ext MINLEN-0  
 -MINLEN-0 -MINLEN-0 -US09126945\_COPY\_236\_243 -NCPV-3  
 -LONGLOG -DBV\_TLMOUT-120 -WARM\_TLMOUT-50 -NO\_ALIGN -WAIT  
 -THREADS-61

Search Information block:

Query: US-09-126-945b-2\_COPY\_236\_243

Query length: 8

Database: N\_GeneSeq\_0601.\*

Database sequences: 730101

Database length: 313520830

Search time (sec): 104.390000

WARN: XGAPOP and YGAPEXT must be equal. Assuming YGAPOP=XGAPOP=60.000  
 WARN: XGAPEXT and YGAPEXT must be equal. Assuming YGAPEXT=XGAPEXT=60.000

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CC translocation in various human cancers. PDF has cytostatic, cordant,  
 CC immunosuppressive, cerebroprotective, fungicide, antibacterial,  
 CC antiviral, neuroprotective, antiparkinsonian, nootropic, anabolic,  
 CC antiinflammatory and anorectic activity. PDF polynucleotides are useful  
 CC in linkage analysis as markers, as hybridisation probes for differential  
 CC identification of the tissues or cell types and as polymorphic markers  
 CC for forensic purposes. PDF is useful as prostate-specific tumour marker  
 CC for the diagnosis and treatment of prostate cancer. PDF sequences are  
 CC useful in treating autoimmune diseases, rheumatoid arthritis, blood  
 CC clots, multiple sclerosis, hepatitis, HIV infection, and other  
 CC disorders like neoplasms and microbial infections. PDF attacks  
 CC stroke, ageing and for tissue regeneration. They are also useful as  
 CC food additives or preservatives.

XX Sequence 1894 BP: 368 A: 653 C: 571 G: 302 T: 0 other:  
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Alignment\_scores:  
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 Ratio: 1.000 Gaps: 0  
 Percent Similarity: 100.000 Percent Identity: 100.000

Alignment\_block:  
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 XX 16-MAR-2001 (first entry)  
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 XX leukaemia; lymphoma; sarcoma; melanoma; chromosome 6p21.1-6p21.3; da.  
 XX Homo sapiens.  
 XX MO200070092-A1.  
 XX 23-NOV-2000.  
 XX 12-MAY-2000: 2000NC-0513173.  
 XX 14-MAY-1999: 99US-0134112.  
 XX (CHIR ) CHIRON CORP.  
 XX Kaufmann J, Xin H, Harrowe G;  
 XX WPI: 2001-041019/05.  
 XX P-PSDB: ABA49638.  
 XX Detecting metastatic and potential metastatic cancerous cells, useful  
 XX for diagnosing, prognosing, grading and staging of cancers by detecting  
 XX gland-specific Ets transcription factor gene product in a biological  
 XX sample from a cell -  
 XX Disclosure: Page 81-83; 95pp; English.

This invention relates to a method for the detection and determination of  
 the metastatic potential of a cell. The method comprises detecting a  
 gland-specific Ets transcription factor (GSEF) gene product in a test

CC sample. Detection of a GSEF gene product in the test sample in amount  
 CC lower than that in a normal cell, is indicative of a cell with high  
 CC metastatic potential. The method is useful for determining the metastatic  
 CC potential of a cell, for the diagnosis and prognosis of cancer as well as  
 CC grading and staging of cancers by detecting GSEF expression in a  
 CC biological test sample. The method may also be used to monitor patients  
 CC having a predisposition to develop a particular cancer. GSEF polypeptides  
 CC are useful for producing antibodies, in cancer diagnosis, prognosis,  
 CC grading, staging and management of breast and prostate tumours, and in  
 CC detecting polynucleotides in the sequence. GSEF expression also  
 CC in conjunction with any tissue in which an alteration in GSEF gene  
 CC product expression levels is associated with development of a  
 CC cancer-associated phenotype. Cancers, which can be monitored include  
 CC cancers of the prostate, cervix, lung and colon, melanoma, colorectal  
 CC adenocarcinomas, Wilms' tumour, retinoblastoma, sarcomas, myosarcomas,  
 CC lung carcinomas, leukaemia, and lymphomas. The GSEF gene is located on  
 CC human chromosome 6, specifically at 6p21.1-6p21.3. The present sequence  
 CC represents the DNA encoding GSEF.  
 XX

Sequence 1894 BP: 368 A: 653 C: 571 G: 302 T: 0 other:  
 SO

Alignment\_scores:  
 Quality: 8.00 Length: 8  
 Ratio: 1.000 Gaps: 0  
 Percent Similarity: 100.000 Percent Identity: 100.000

Alignment\_block:  
 US-09-126-945b-2\_copy\_236\_243 x AAC83261 ..  
 Align seg 1/1 to: AAC83261 from: 1 to: 1894

1 ThrAspSerGluValAspSerSer 8  
 |||||  
 1121 ACCGACACCGACGCTGACTATCA 1144

seq\_name: /SID51/9cgdata/geneseq/geneseq/NM2001.DMT:AAC83265

seq\_documentation\_block:  
 ID AAC83265 standard: DNA: 3317 BP.  
 XX AAC83265:  
 XX 16-MAR-2001 (first entry)  
 XX Gland-specific Ets transcription factor (GSEF) cDNA sequence.  
 DE Gland-specific Ets transcription factor (GSEF) cDNA sequence.  
 XX Transcription factor: gland-specific Ets transcription factor; GSEF;  
 XX metastatic potential; cancer: tumour; metastasis; breast; prostate;  
 XX leukaemia; lymphoma; sarcoma; melanoma; chromosome 6p21.1-6p21.3; sa.  
 XX Homo sapiens.  
 XX MO200070092-A1.  
 XX 23-NOV-2000.  
 XX 12-MAY-2000: 2000NC-0513173.  
 XX 14-MAY-1999: 99US-0134112.  
 XX (CHIR ) CHIRON CORP.  
 XX Kaufmann J, Xin H, Harrowe G;  
 XX WPI: 2001-041019/05.  
 XX P-PSDB: ABA49633.  
 XX Detecting metastatic and potential metastatic cancerous cells, useful  
 XX for diagnosing, prognosing, grading and staging of cancers by detecting  
 XX gland-specific Ets transcription factor gene product in a biological  
 XX sample from a cell -

(PATH-) PATHOGENESIS CORP

Ebersole RC, Fitzpatrick-McElligott S, Hendrickson ER;

PI Potry NP;  
 DR WPI: 1997-448704/41.  
 XX  
 XX Detecting replicated target nucleic acid - by incorporating a label  
 PT in presence of a unreplicable, labelled detection probe, used for  
 PT analysis of clinical samples, food, etc  
 XX  
 XX Example 1: Page 30: 69pp: English.  
 XX  
 XX This sequence represents a primer for a Venezuelan equine encephalitis  
 CC virus (VEE) DNA sequence, and can be used in the method of the invention.  
 CC The method of the invention is for detecting a target nucleic acid  
 CC sequence (i) in a replication reaction. The method comprises:  
 CC (1) replicating at least one (i) with a composition containing first  
 CC label (ii) that can be incorporated into replicated nucleic acid and a  
 CC detection probe (DP) consisting of a second label (i2), target domain and  
 CC replication inhibiting domain that prevents the DP from participating in  
 CC replication (iii) when the DP and at least one (iii)  
 CC replication (iii) are both present. The method is used with any  
 CC detecting presence of immobilised hybrid. The method is used with any  
 CC clinical samples, foods, crops, soil, water etc. The method using a  
 CC homogeneous detection probe system allows real-time monitoring of product  
 CC formation and is not restricted by base composition of probes or primers,  
 CC melting or annealing temperatures or PCR cycling conditions. The presence  
 CC of probes throughout the reaction does not inhibit replication or  
 CC decrease yield, and eliminates the need for an additional hybridisation  
 CC step. The method is used to detect the presence of the target nucleic acid  
 CC in untested sequences is reduced. electrophoresis is not required and  
 CC products can be detected in several different formats.  
 XX  
 XX Sequence 20 BP: 4 A: 6 C: 4 G: 6 T: 0 other:  
 S0  
 Alignment\_scores:  
 Quality: 5.00 Length: 6  
 Ratio: 1.000 Gaps: 0  
 Percent Similarity: 100.000 Percent Identity: 100.000  
 Alignment\_block:  
 US-09-126-945b-2\_COPY\_236\_243 x AAT97058/rev ..  
 Align seg 1/1 to reverse of: AAT97058 from: 1 to: 20  
 3 SerGIUVA1aapSerSer 8  
 19 TCNAGAGTCGACGCACT 2  
 seq\_name: /SID51/gcdata/geneseq/geneseqn/NA2000.DAT:AA09858  
 seq\_documentation\_block:  
 ID AA09858 standard: DNA: 20 BP.  
 XX  
 XX AA09858:  
 XX  
 XX 05-JUL-2000 (first entry)  
 XX  
 XX Venezuelan equine encephalitis virus gene primer: VE1569.  
 DE  
 XX  
 XX Detection, non-denatured nucleic acid: test strip: capture zone: dnak;  
 KW blocking agent: nonionic surfactant; chromatography: capillary migration;  
 KW human; veterinary medicine: agricultural science: food science: ss;  
 KW bacteriophage; virus; antibiotic resistance: malignant cell; PCR primer.  
 OS  
 XX Venezuelan equine encephalitis virus.  
 XX  
 XX US6037127-A.  
 XX  
 XX 14-MAR-2000.  
 PD  
 XX 26-NOV-1997: 97US-0979269.  
 PP  
 XX

PR 31-MAR-1994: 94US-0231769.  
 PR 20-SEP-1995: 95US-0547985.  
 PR 27-MAR-1997: 97US-0863265.  
 XX  
 XX (DUPO) DU PONT DE NEMOURS & CO E. I.  
 XX  
 XX Eberstele RC, Payne MS, Fitzpatrick-McElligott S, Majarian WR;  
 PI Rafelski JA, Hendrickson ER;  
 XX  
 XX WPI: 2000-269884/23.  
 XX  
 XX Detecting non-denatured nucleic acid useful for medical diagnosis  
 PT comprises specific capture on test strip and detection of incorporated  
 PT or associated reporter  
 XX  
 XX Example 9: Column 36: 39pp: English.  
 XX  
 XX The invention relates to methods of detecting the presence of  
 CC non-denatured nucleic acid (i) in a buffered test sample by applying  
 CC single-stranded nucleic acid (ii) complementary to part of (i) after  
 CC incubation, the strip is washed and treated with a signal-generating  
 CC substance (iv) that reacts with a reporter conjugate located within, or  
 CC bound to, (i). The sample includes a blocking agent and nonionic  
 CC surfactant and is applied to one end of the strip made of  
 CC chromatographic material that transports sample laterally by capillary  
 CC migration. The strip is incubated for at least 5 mins, then washed to  
 CC remove unbound nucleic acid from the capture zone. The signal from the  
 CC capture zone is then compared with the signal from the control zone  
 CC strip. The method is used to identify (i) in human or veterinary  
 CC medicine, or in agricultural and food science, particularly to detect or  
 CC identify bacteria and viruses, to screen microbes for antibiotic  
 CC resistance, and to detect malignant cells. Primers AA09856-AA09890 were  
 CC used to PCR amplify fragments of the Venezuelan equine encephalitis virus  
 CC genome which used as an example of a target sequence to be detected by  
 CC the method of the invention.  
 XX  
 XX Sequence 20 BP: 4 A: 6 C: 4 G: 6 T: 0 other:  
 S0  
 Alignment\_scores:  
 Quality: 5.00 Length: 6  
 Ratio: 1.000 Gaps: 0  
 Percent Similarity: 100.000 Percent Identity: 100.000  
 Alignment\_block:  
 US-09-126-945b-2\_COPY\_236\_243 x AA09858/rev ..  
 Align seg 1/1 to reverse of: AA09858 from: 1 to: 20  
 3 SerGIUVA1aapSerSer 8  
 19 TCNAGAGTCGACGCACT 2  
 seq\_name: /SID51/gcdata/geneseq/geneseqn/NA1993.DAT:AA060590  
 seq\_documentation\_block:  
 ID AA060590 standard: cDNA: 292 BP.  
 XX  
 XX AA060590:  
 XX  
 XX 16-MAR-1994 (first entry)  
 XX  
 XX Human brain Expressed Sequence Tag EST02601.  
 DE  
 XX  
 XX transcribed product: genetic markers; tagging: in vivo;  
 KW gene transcription; mapping; locations; chromosomes; chromosomal; ss.  
 OS  
 XX Homo sapiens.  
 XX  
 XX WO9316178-A.  
 PD  
 XX 19-AUG-1993.  
 PP  
 XX

```

XX 12-FEB-1993: 93MO-US01294.
XX
XX 12-FEB-1992: 92US-0837195.
XX
XX (USHS ) US DEPT HEALTH & HUMAN SERVICE.
XX
XX Adams MD, Moreno RF, Venter CJ;
XX
XX WPI: 1993-272882/34.
XX
XX Enriched oligonucleotides and corresp. sequences - used as
XX markers for human genes transcribed in-vivo, facilitate tagging
XX of most human genes
XX
XX Example 4: Page 358; 500pp; English.
XX
XX The Expressed Sequence Tag was isolated from a human brain cDNA
XX library as part of a large set of ESTs which can be used as markers
XX for human genes transcribed in vivo. They can be used to facilitate
XX tagging of most human genes, for mapping locations of expressed genes
XX on chromosomes, for individual or forensic identification, for mapping
XX locations of disease-associated genes, for identification of tissue
XX specific and antisense sequences, probes and constructs.
XX EST02601 has an excellent homology as evaluated using the
XX coding-region prediction program ORF. See also AAC05041.061440.
XX
XX
XX Sequence 292 BP; 81 A; 80 C; 57 G; 69 T; 5 other;
XX
XX Alignment scores:
XX Quality: 6.00 Length: 6
XX Ratio: 1.000 Gaps: 0
XX Percent Similarity: 100.000 Percent Identity: 100.000
XX
XX Alignment_block:
XX US-09-126-945b-2_COPY_236_243 x AAC060590/rev ..
XX
XX Align seg 1/1 to reverse of: AAC060590 from: 1 to: 292
XX
XX 3 SerGIUWAlapSerSer 8
XX |||||||||||||||
XX 271 AGTCAGGTGACGACACT 254
XX
XX seq_name: /SIDSI/gcgcdata/geneseq/geneseq/NA2000.DAT:AAC03618
XX
XX seq_documentation_block:
XX ID AAC03618 standard; cDNA; 358 BP.
XX
XX AC AAC03618:
XX
XX 06-OCT-2000 (first entry)
XX
XX Human secreted protein 5', EST, SEQ ID NO: 3616.
XX
XX Human: 5' EST; expressed sequence tag; secreted protein; cDNA isolation;
XX gene therapy; chromosome mapping; ss.
XX
XX Homo sapiens.
XX
XX
XX EPI033401-A2.
XX
XX 06-SEP-2000.
XX
XX 21-FEB-2000; 2000EP-0200610.
XX
XX 26-FEB-1999; 99US-0123487.
XX
XX (GENSE ) GENSET.
XX
XX Dumas Milne Edwards J, Duclert A, Giordano J;
XX
XX WPI: 2000-500381/45.

```

```

XX
XX P-PSDB; AAC03612.
XX
XX New nucleic acid that is a 5' expressed sequence tag (5' EST) for
XX obtaining cDNAs and genomic DNAs that correspond to 5' ESTs and for
XX diagnostic, forensic, gene therapy and chromosome mapping procedures -
XX
XX Claim 1: SEQ ID 3616; 71pp + CD-ROM; English.
XX
XX The present sequence is one of a large number of 5' ESTs derived from
XX a cDNA library generated from a human brain cDNA library. The
XX sequence is a 5' EST of a human gene. The sequence is a 5' EST of a
XX sequence derived from 30 different tissues. The sequence is a 5' EST
XX mainly to the 3' untranslated region (UTR) of the mRNA because they are
XX often obtained from oligo-dT primed cDNA libraries. Such ESTs are not
XX well suited for isolating cDNA sequences derived from the 5' ends of
XX mRNAs and even in those cases where longer cDNA sequences have been
XX obtained, the full 5' UTR is rarely included. 5' ESTs are derived from
XX mRNAs with intact 5' ends and can therefore be used to obtain full length
XX cDNA sequences. 5' ESTs are also used in diagnostic, forensic,
XX gene therapy and chromosome mapping procedures. They are used to obtain
XX vectors.
XX
XX
XX Sequence 358 BP; 107 A; 69 C; 71 G; 109 T; 2 other;
XX
XX Alignment scores:
XX Quality: 6.00 Length: 6
XX Ratio: 1.000 Gaps: 0
XX Percent Similarity: 100.000 Percent Identity: 100.000
XX
XX Alignment_block:
XX US-09-126-945b-2_COPY_236_243 x AAC03618/rev ..
XX
XX Align seg 1/1 to reverse of: AAC03618 from: 1 to: 358
XX
XX 3 SerGIUWAlapSerSer 8
XX |||||||||||||||
XX 349 AGTCAGGTGACGACACT 332
XX
XX seq_name: /SIDSI/gcgcdata/geneseq/geneseq/NA2000.DAT:AAC43470
XX
XX seq_documentation_block:
XX ID AAC43470 standard; DNA; 426 BP.
XX
XX AC AAC43470:
XX
XX 18-OCT-2000 (first entry)
XX
XX Arabidopsis thaliana DNA fragment SEQ ID NO: 61280.
XX
XX Hybridisation assay; genetic mapping; gene expression control;
XX gene therapy; chromosome mapping; signal transduction pathway;
XX metabolic pathway; promoter; termination sequence; ss.
XX
XX Arabidopsis thaliana.
XX
XX
XX EPI033405-A2.
XX
XX 06-SEP-2000.
XX
XX 25-FEB-2000; 2000EP-0201439.
XX
XX 25-FEB-1999; 99US-0121825.
XX
XX 05-MAR-1999; 99US-0123180.
XX
XX 09-MAR-1999; 99US-0123548.
XX
XX 23-MAR-1999; 99US-0125788.
XX
XX 25-MAR-1999; 99US-0126264.
XX
XX 27-MAR-1999; 99US-0125785.
XX
XX 08-APR-1999; 99US-0126232.
XX
XX 08-APR-1999; 99US-0128274.
XX
XX 16-APR-1999; 99US-0128845.

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| PR 19-APR-1999; | 99US-0130077 | PR 19-JUL-1999; | 99US-0144335 |
| PR 21-APR-1999; | 99US-0130449 | PR 20-JUL-1999; | 99US-0144352 |
| PR 23-APR-1999; | 99US-0130510 | PR 20-JUL-1999; | 99US-0144632 |
| PR 28-APR-1999; | 99US-0130891 | PR 20-JUL-1999; | 99US-0144884 |
| PR 30-APR-1999; | 99US-0131449 | PR 21-JUL-1999; | 99US-0144814 |
| PR 30-APR-1999; | 99US-0132048 | PR 21-JUL-1999; | 99US-0145086 |
| PR 04-MAY-1999; | 99US-0132407 | PR 22-JUL-1999; | 99US-0145088 |
| PR 04-MAY-1999; | 99US-0132484 | PR 22-JUL-1999; | 99US-0145085 |
| PR 04-MAY-1999; | 99US-0132482 | PR 22-JUL-1999; | 99US-0145087 |
| PR 06-MAY-1999; | 99US-0132482 | PR 22-JUL-1999; | 99US-0145087 |
| PR 07-MAY-1999; | 99US-0132487 | PR 23-JUL-1999; | 99US-0145192 |
| PR 11-MAY-1999; | 99US-0132863 | PR 23-JUL-1999; | 99US-0145145 |
| PR 14-MAY-1999; | 99US-0134256 | PR 23-JUL-1999; | 99US-0145224 |
| PR 14-MAY-1999; | 99US-0134218 | PR 26-JUL-1999; | 99US-0145226 |
| PR 14-MAY-1999; | 99US-0134219 | PR 27-JUL-1999; | 99US-0145216 |
| PR 14-MAY-1999; | 99US-0134221 | PR 27-JUL-1999; | 99US-0145913 |
| PR 14-MAY-1999; | 99US-0134370 | PR 27-JUL-1999; | 99US-0145918 |
| PR 15-MAY-1999; | 99US-0134458 | PR 27-JUL-1999; | 99US-0145919 |
| PR 15-MAY-1999; | 99US-0134458 | PR 27-JUL-1999; | 99US-0145919 |
| PR 20-MAY-1999; | 99US-0135124 | PR 02-AUG-1999; | 99US-0146384 |
| PR 21-MAY-1999; | 99US-0135353 | PR 02-AUG-1999; | 99US-0146388 |
| PR 24-MAY-1999; | 99US-0135659 | PR 03-AUG-1999; | 99US-0146389 |
| PR 25-MAY-1999; | 99US-0136021 | PR 03-AUG-1999; | 99US-0147038 |
| PR 27-MAY-1999; | 99US-0136392 | PR 04-AUG-1999; | 99US-0147204 |
| PR 28-MAY-1999; | 99US-0136782 | PR 04-AUG-1999; | 99US-0147302 |
| PR 01-JUN-1999; | 99US-0137222 | PR 05-AUG-1999; | 99US-0147192 |
| PR 03-JUN-1999; | 99US-0137358 | PR 05-AUG-1999; | 99US-0147280 |
| PR 07-JUN-1999; | 99US-0137433 | PR 06-AUG-1999; | 99US-0147383 |
| PR 07-JUN-1999; | 99US-0137724 | PR 06-AUG-1999; | 99US-0147413 |
| PR 08-JUN-1999; | 99US-0138094 | PR 09-AUG-1999; | 99US-0147483 |
| PR 10-JUN-1999; | 99US-0138540 | PR 09-AUG-1999; | 99US-0147935 |
| PR 10-JUN-1999; | 99US-0138847 | PR 10-AUG-1999; | 99US-0148171 |
| PR 14-JUN-1999; | 99US-0139119 | PR 11-AUG-1999; | 99US-0148319 |
| PR 16-JUN-1999; | 99US-0139432 | PR 12-AUG-1999; | 99US-0148341 |
| PR 16-JUN-1999; | 99US-0139433 | PR 13-AUG-1999; | 99US-0148565 |
| PR 16-JUN-1999; | 99US-0139432 | PR 13-AUG-1999; | 99US-0148684 |
| PR 18-JUN-1999; | 99US-0139445 | PR 17-AUG-1999; | 99US-0149175 |
| PR 18-JUN-1999; | 99US-0139455 | PR 18-AUG-1999; | 99US-0149426 |
| PR 18-JUN-1999; | 99US-0139456 | PR 20-AUG-1999; | 99US-0149722 |
| PR 18-JUN-1999; | 99US-0139457 | PR 20-AUG-1999; | 99US-0149723 |
| PR 18-JUN-1999; | 99US-0139458 | PR 20-AUG-1999; | 99US-0149929 |
| PR 18-JUN-1999; | 99US-0139459 | PR 23-AUG-1999; | 99US-0149902 |
| PR 18-JUN-1999; | 99US-0139460 | PR 23-AUG-1999; | 99US-0149930 |
| PR 18-JUN-1999; | 99US-0139461 | PR 26-AUG-1999; | 99US-0150585 |
| PR 18-JUN-1999; | 99US-0139462 | PR 26-AUG-1999; | 99US-0150585 |
| PR 18-JUN-1999; | 99US-0139463 | PR 27-AUG-1999; | 99US-0150585 |
| PR 18-JUN-1999; | 99US-0139473 | PR 27-AUG-1999; | 99US-0151065 |
| PR 21-JUN-1999; | 99US-0139817 | PR 27-AUG-1999; | 99US-0151080 |
| PR 22-JUN-1999; | 99US-0139899 | PR 30-AUG-1999; | 99US-0151303 |
| PR 23-JUN-1999; | 99US-0140353 | PR 31-AUG-1999; | 99US-0151438 |
| PR 23-JUN-1999; | 99US-0140354 | PR 01-SEP-1999; | 99US-0151930 |
| PR 24-JUN-1999; | 99US-0140655 | PR 07-SEP-1999; | 99US-0151363 |
| PR 24-JUN-1999; | 99US-0140823 | PR 10-SEP-1999; | 99US-0153070 |
| PR 29-JUN-1999; | 99US-0140921 | PR 13-SEP-1999; | 99US-0153758 |
| PR 30-JUN-1999; | 99US-0141281 | PR 13-SEP-1999; | 99US-0154018 |
| PR 01-JUL-1999; | 99US-0141287 | PR 20-SEP-1999; | 99US-0154779 |
| PR 01-JUL-1999; | 99US-0142154 | PR 22-SEP-1999; | 99US-0155119 |
| PR 02-JUL-1999; | 99US-0142055 | PR 23-SEP-1999; | 99US-0155486 |
| PR 06-JUL-1999; | 99US-0142390 | PR 24-SEP-1999; | 99US-0155659 |
| PR 08-JUL-1999; | 99US-0142803 | PR 28-SEP-1999; | 99US-0156458 |
| PR 09-JUL-1999; | 99US-0142920 | PR 29-SEP-1999; | 99US-0156596 |
| PR 12-JUL-1999; | 99US-0142977 | PR 04-OCT-1999; | 99US-0157117 |
| PR 14-JUL-1999; | 99US-0143542 | PR 05-OCT-1999; | 99US-0157793 |
| PR 14-JUL-1999; | 99US-0143664 | PR 07-OCT-1999; | 99US-0158035 |
| PR 16-JUL-1999; | 99US-0144005 | PR 07-OCT-1999; | 99US-0158232 |
| PR 16-JUL-1999; | 99US-0144086 | PR 12-OCT-1999; | 99US-0158369 |
| PR 19-JUL-1999; | 99US-0144331 | PR 13-OCT-1999; | 99US-0159293 |
| PR 19-JUL-1999; | 99US-0144332 | PR 13-OCT-1999; | 99US-0159294 |
| PR 19-JUL-1999; | 99US-0144333 | PR 14-OCT-1999; | 99US-0159329 |
| PR 19-JUL-1999; | 99US-0144334 |                 |              |

PR 14-OCT-1999; 99US-0159330.  
 PR 14-OCT-1999; 99US-0159331.  
 PR 14-OCT-1999; 99US-0159637.  
 PR 14-OCT-1999; 99US-0159638.  
 PR 14-OCT-1999; 99US-0159584.  
 PR 21-OCT-1999; 99US-0160721.  
 PR 21-OCT-1999; 99US-0160722.  
 PR 21-OCT-1999; 99US-0160768.  
 PR 21-OCT-1999; 99US-0160770.  
 PR 21-OCT-1999; 99US-0160814.  
 PR 21-OCT-1999; 99US-0160815.  
 PR 22-OCT-1999; 99US-0160981.  
 PR 22-OCT-1999; 99US-0160989.  
 PR 25-OCT-1999; 99US-0161405.  
 PR 25-OCT-1999; 99US-0161406.  
 PR 25-OCT-1999; 99US-0161359.  
 PR 26-OCT-1999; 99US-0161360.  
 PR 26-OCT-1999; 99US-0161361.  
 PR 28-OCT-1999; 99US-0161920.  
 PR 28-OCT-1999; 99US-0161921.  
 PR 28-OCT-1999; 99US-0162142.  
 PR 29-OCT-1999; 99US-0162143.  
 PR 29-OCT-1999; 99US-0162142.

Alignment\_scores:  
 Quality: 6.00 Length: 6  
 Ratio: 1.000 Gaps: 0  
 Percent Similarity: 100.000 Percent Identity: 100.000

Alignment\_block:

US-09-126-945b-2\_COPY\_236\_243 x AAC9470 ..

Align seg 1/1 to: AAC9470 from: 1 to: 426

1 Thraspergulinasp 6  
 |||||  
 322 ACAGATTCAGACTGACT 339

seq\_name: /SISL/gcgdata/geneseq/geneseq/NA2000.DAT:AA280015

seq\_documentation\_block:  
 ID AA280015 standard; CDNA: 657 BP.

AA280015:

07-APR-2000 (first entry)

Human colon cancer cell line SM480 CDNA clone SEQ ID NO:99.

Human: gene expression product; diagnosis: tumor; colon cancer;

colorectal adenocarcinoma; cell line SM480; cell proliferation;

cytostatic; sarcoma; breast cancer; neoplasia; dysplasia;

hyperplasia; ds.

OS Homo sapiens.

MO9964576-A2.

16-DEC-1999.

09-JUN-1999; 99MO-IB01062.

10-JUN-1998; 98US-0088801.

(FARB ) BAYER CORP.

Endege MO, Steilmann KE, Astle JR, Burgess CC, Bushnell SE;

Carroll E, Catlin TJ, Dertl A, Ford DM, Lewis ME, Monahan JE;

Schlegel R;

WPI: 2000-087220/07.

PF Novel nucleic acids, used to develop products for the diagnosis and  
 treatment of disorders involving unwanted cell proliferation,  
 particularly cancers, especially colon cancer

Claim 1: Page 171; 46pp; English.

CC AA27917 to AA28076 represent double stranded cDNA clones isolated from  
 the human colorectal adenocarcinoma (colon cancer) cell line SM480. The  
 cDNA clones can be used to generate antisense oligonucleotides which  
 can be used for antisense therapy. Methods and products from the present  
 invention can be used for identifying and/or classifying cancerous cells  
 present in a sample, for example, by hybridizing the cDNA clones with  
 cancerous and sarcoma cells. The cDNA clones can be used for developing  
 agents for the diagnosis and treatment of disorders involving unwanted cell proliferation, such as neoplasia,  
 dysplasia or hyperplasia.

Sequence 657 BP; 137 A; 146 C; 153 G; 203 T; 18 other;

Alignment\_scores:  
 Quality: 6.00 Length: 6  
 Ratio: 1.000 Gaps: 0  
 Percent Similarity: 100.000 Percent Identity: 100.000

Alignment\_block:

US-09-126-945b-2\_COPY\_236\_243 x AA280015/rev ..

Align seg 1/1 to reverse of: AA280015 from: 1 to: 657

3 SergiulvAAspsersec 8  
 |||||  
 199 TCAGAGGTGACACTCA 182

seq\_name: /SISL/gcgdata/geneseq/geneseq/NA2000.DAT:AA07726

seq\_documentation\_block:  
 ID AA07726 standard; CDNA: 716 BP.

AA07726:

13-MAR-2001 (first entry)

Fusarium venenatum EST SEQ ID NO:249.

Multiple gene expression; filamentous fungal cell; EST;

expressed sequence tag; Fusarium venenatum; Aspergillus niger;

Aspergillus oryzae; Trichoderma reesei; Identification; recombination;

culture condition; environmental stress; spore morphogenesis;

metabolic pathway engineering; catabolic pathway engineering; ss.

Fusarium venenatum.

MO200056762-A2.

28-SEP-2000.

22-MAR-2000; 2000MO-US07781.

22-MAR-1999; 99US-0273623.

(NOVO ) NOVO NORDISK BIOTECH INC.

(NOVO ) NOVO NORDISK AS.

Berka RM, Rey MM, Shuster JR, Kauppinen S, Clausen IG, Olsen PB;

WPI: 2000-594572/56.

Monitoring differential expression of genes in filamentous fungal cells

uses fluorescence-labeled nucleic acids isolated from the cells and a

substrate of expressed sequence tags -

Claim 86; Page 478; 316pp; English.



XX The present invention describes a method for monitoring differential  
 CC expression of genes in a first filamentous fungal (FF) cell relative to  
 CC expression of the same genes in one or more second filamentous fungal  
 CC cells. The method uses fluorescence-labeled nucleic acids isolated from  
 CC the FF cells and a substrate of expressed sequence tags (EST). The ESTs  
 CC are used in the methods for monitoring differential expression of genes  
 CC in a first filamentous fungal (FF) cell relative to expression of the  
 CC same genes in a second filamentous fungal cell. Monitoring  
 CC the global expression of genes from FF cells using a high-throughput  
 CC potential of the microorganisms to be improved. New genes may be  
 CC discovered, possible functions of unknown open reading frames can be  
 CC identified, and gene copy number variation and stability can be  
 CC monitored. The expression of genes can be used to study how FF cells  
 CC adapt to changes in culture conditions, environmental stress, spore  
 CC morphogenesis, recombination, metabolic or catabolic pathway  
 CC engineering, using ESTs provides several advantages over genomic or  
 CC random cDNA clones including elimination of redundancy as one spot on an  
 CC array can represent a single gene, and the organization of the  
 CC microarrays based on the function of the genes. The ESTs from the  
 CC analysis of the results. AA07478 to AA07478 represents ESTs from  
 CC *Fusarium venenatum*; AA013248 to AA013247 represents ESTs from *Aspergillus*  
 CC *niger*; AA013834 to AA014878 represents ESTs from *Aspergillus oryzae*; and  
 CC AA014879 to AA015337 represents ESTs from *Trichoderma reesei*, which are  
 CC all specifically claimed in the present invention.

XX Sequence 716 BP: 172 A: 214 C: 172 G: 157 T: 1 other:

Alignment\_scores:

Quality: 6.00 Length: 6  
 Ratio: 1.000 Gaps: 0  
 Percent Similarity: 100.000 Percent Identity: 100.000

Alignment\_block:

US-09-126-945b-2\_COPY\_236\_243 x AA07478 ..  
 Align beg 1/1 to: AA07478 from: 1 to: 716

1 ThraAspergillusAASP 6

|||||

612 ACCGACACGACGACGAC 629

seq\_name: /SID51/9c9data/geneseq/geneseq/NM1988.DAT:AA080229

seq\_documentation\_block:

AA080229 standard; DNA: 1236 BP.

AA080229:

03-DEC-1990 (first entry)

Bioadhesive precursor protein gene cDNA 52.

Bioadhesive precursor protein: cDNA 52; muscels; barnacles; oysters;

biomedical adhesive; sealants; wound healing; ss.

Mytilus edulis.

Key Location/Qualifiers

FF CDS 3..1004 /lag a

W08803953-A.

02-JUN-1988.

24-NOV-1987: 87NO-US03048.

07-AUG-1987: 87US-0082456.

(GENE-) GENEX CORP.

XX Maugh KJ, Anderson DM, Strausberg R, Strausberg SL, McCandless R;

XX WPI: 1988-161622/23.

XX P-PSDB: AAP82971.

XX DNA coding for bio-adhesive precursor protein - obtd. from muscels,

XX barnacles and oysters and used esp. to prepare biomedical adhesive.

XX Disclosure: pp: English.

XX mRNA from the phenol gland of the foot of *M. edulis* is isolated for  
 CC the synthesis of cDNA. The cDNA is inserted into a bacteriophage  
 CC and *E. coli* transfected and cultured. Five clones were isolated and  
 CC characterized, one of which is clone 52. The sequence has been  
 CC identified to show 26 subunits, including 23 decapeptides and 3  
 CC hexapeptides, and an amino-terminal proline-rich segment.

XX There is also a direct repeat of DNA sequences in clone 52.

XX This cDNA clone and two of the other (35 (AA080230) and 36 (AA080231))

XX are derived from intron sequences (not shown) which is believed

XX to be derived from intron sequences (not shown) which is believed

XX clone 14-1 (AA080228) and 52 display extensive homology at their 3'

XX ends. In particular, the last 138 codons of the translated regions are

XX identical and include codons for a hexapeptide followed by 12

XX decapeptides (beginning at codon 75 of clone 14-1 and codon 205

XX of clone 52. The DNA segment contg. the coding regions of

XX bioadhesive precursor protein of clone 14-1 and 52 was obtained from

XX lambda gt10 cloning vectors by EcoRI digestion and subcloned into the

XX vector site of plasmid pX07.

XX The recombinant plasmids were enzymatically hydrolyzed to produce

XX adhesive compounds having excellent properties in wet environments. The

XX product is partic. useful as a marine or dental adhesive. It can be used as a

XX wound healing or as a marine or dental adhesive. It can be used as a

XX thin film membrane.

XX See also AA080228-34.

XX Sequence 1236 BP: 464 A: 338 C: 125 G: 309 T: 0 other:

Alignment\_scores:

Quality: 6.00 Length: 6  
 Ratio: 1.000 Gaps: 0  
 Percent Similarity: 100.000 Percent Identity: 100.000

Alignment\_block:

US-09-126-945b-2\_COPY\_236\_243 x AA080229/rev ..

Align beg 1/1 to reverse of: AA080229 from: 1 to: 1236

2 AspergillusAASP 7

|||||

204 GACTCGAGGCGACTCG 187

seq\_name: /SID51/9c9data/geneseq/geneseq/NM1988.DAT:AA0802450

seq\_documentation\_block:

AA0802450 standard; cDNA: 1236 BP.

06-MAR-1992 (first entry)

Sequence for a gene identified as cDNA clone 52 which codes for  
 CC a bioadhesive precursor protein.  
 CC bioadhesive; wound healing; bonding; recombinant adhesive; ss.  
 CC Mytilus edulis.

Key Location/Qualifiers

FF CDS 3..1022 /lag a

PM WO8807076-A.  
 XX  
 PD 22-SEP-1988.  
 XX  
 PF 11-MAR-1988; 88MO-US00876.  
 XX  
 PY 12-MAR-1987; 87US-0025243.  
 XX  
 PA (GENE-) GENEX CORP.  
 XX  
 PI Maugh KJ, Anderson DM, Strausberg SL, Strausberg R;  
 EI Wei T.  
 XX  
 DI WPI: 1988-28553/40.  
 XX  
 DR P-PSDB; AN83134.  
 XX  
 PT Bio-adhesive precursor protein analogues prodn. - by DNA  
 recombinant techniques, subsequent hydroxylation, gives an  
 adhesive for use in wet environment  
 XX  
 PS Example; Fig 14; 101pp; English.  
 CC The bioadhesive precursor protein analogue of the invention can be  
 CC hydroxylated (PROD class) and used as an adhesive in wet  
 CC environments. The resulting bioadhesives have medical and  
 CC dental applications. They may be used e.g. in wound healing in the  
 CC same manner as fibrin. While the decapeptide ala-lys-pro-ser-tyr-pro-  
 CC pro-thr-tyr-lys is repeated many times in the polyphenolic adhesive  
 CC protein of M.edulis, the examination of cDNA sequences encoding  
 CC portions of this protein (see U.S. Patent Application Serial No. 933,  
 CC 845,345) has revealed that the polyphenolic adhesive of M.edulis  
 CC sequences are also present in the polyphenolic adhesive of other  
 CC species. These sequences may constitute the majority of a sequence  
 CC polyphenolic adhesive protein of M.edulis. For example, in cDNA  
 CC clone 14-1 nineteen decapeptides and one hexapeptide are encoded.  
 XX  
 SO Sequence 1236 BP; 462 A; 340 C; 124 G; 310 T; 0 other;

alignment\_scores:  
 Quality: 6.00 Length: 6  
 Ratio: 1.000 Gaps: 0  
 Percent Similarity: 100.000 Percent Identity: 100.000

alignment\_block:  
 US-09-126-945b-2\_COPY\_236\_243 x AN82450/rev ..  
 Align seg 1/1 to reverse of: AN82450 from: 1 to: 1236

2 AspSerGluValAspSer 7  
 ||||||||||||||||  
 204 GACTCGAGCTGCTGACTCG 187